School Exams on the Second Term

2018/2019

(Answer Guide P. 24)

Vhen the whole Moon en ire result from electri	ters the semi-shaded area of Earth, the Micity is extinguished by sand. Indeed penetrates the soil to absorb wat	loon seems without eclipse. (
Vhen the whole Moon en ire result from electri The root extends an	ters the semi-shaded area of Earth, the Micity is extinguished by sand. Indeed penetrates the soil to absorb wat	loon seems without eclipse. (
Vhen the whole Moon en ire result from electri	ters the semi-shaded area of Earth, the Micity is extinguished by sand.	loon seems without eclipse. (
Vhen the whole Moon en	ters the semi-shaded area of Earth, the M	
	nd lunar eclipse attracts people's attention b	
	I lungs eclipse, the color of Moon to	ends to be red due to
	by two wooden cetts.	
		(
	E A N C I W CAR THE SAME	
		(
luman body is a good	conductor of electricity as it contain	ns gases (
rrect the underline	ed words:	
. 5 minutes	b. 7 seconds and few minutes	c. 7 minutes and few sec
he duration of the sol	ar eclipse does not exceed	
. Wheelbarrow	b. Pliers	c. Manual broom
is/are	considered first class lever.	
. copper	b. plastic	c. aluminum
ectric wires are cover	red with	8
. Argon gas.		c. Mercury vapor
	Argon gas. ectric wires are cover copper is/are Wheelbarrow he duration of the sol 5 minutes rect the underling uman body is a good econd class levers som artial solar eclipse occurred by the first sol	copper b. plastic is/are considered first class lever. Wheelbarrow b. Pliers he duration of the solar eclipse does not exceed

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بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

	if this lever conserves effort or not. And	****
) Complete the following sentence		
	and that is because itsis	
	sed to avoid dangers areand	
3 eclipse occurs when the	is located between the Sun and E	orth
) Mention one function of:		
7. Tweezers:		
2. The points of connection in the fluor	escent lamp:	
3. Stomata:		
) In the following figure, answer t	he following questions:	
a. The electric circuit iscir	cuit.	
b. What is the way of connection if thre	e lamps are connected	
one after the other in one route in thi	is circuit?	
) Write the scientific term in front	of the following:	
1. Levers that have the resistance betw	veen the fulcrum and effort force. (
2. One of the dangers of electricity the	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3. It is the force exerted by a person to		
4. Type of solar eclipse in which we ca	n't see the Sun completely. (
3) Give a reason for each of the fol	lowing:	
 We shouldn't look directly at the Su 	n with the naked eye during the solar eclip	se.
2. Plugging more than one machine to	one socket causes electric fire.	******
 The concentration of salt solution of salt solution in the soil. 	inside the vacuole is greater than the con-	ent
) What happens when?		
1. You insert a metallic bar in an electr	ric socket.	
2. The Moon lies in a higher orbit from	<u> </u>	





A) Complete the following sentences:	#2 00 AOV 27
Manual broom is considered aclass lever, but the crov	vbar is aclass leve
2. The type of levers that always do not conserve effort is	, while the type of leve
that always conserve effort is	
 The filament of the light bulb is made ofand that is be 	ecause it has high
4. The electric shock occurs as a result of passingthro	ough the
5phenomenon always occurs whenblocks a part of the Earth.	s the sunlight from reachi
B) Give a reason for each of the following:	
1. There are two pieces of lead in the light bulb.	
2. Plugging more than one machine to one socket causes electr	ic fires.
3. *The presence of stomata on the lower surface of the plant	leaves.
A) Write the scientific term in front of the following:	
A. A rigid bar that rotates around a fixed point and is affected by	y a force and a resistance
	(
2. Levers that sometimes conserve the effort.	(
One of the dangers of electricity is causing the damage of tis	sues of the body.
	(
4. It occurs to the Moon when it completely enters the umbra	area of the Earth.
	(
5. A way of connecting light bulbs in branching routes.	(
Levers in which the resistance force lies between the effort for	orce and
the fulcrum.	(
PYA 2 nd class lever of force 100 Newton, its force arm of length i	is 25 cm and its resistance
500 Newton; calculate the resistance arm.	

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is	a fixed point that a rigid bar sits on.			
a. Force	b. Fulcrum	c. Resistance		
2. The fluorescent lan	np containsgas.			
a. hydrogen	b. nitrogen	c. argon		
3is	one of the functions of levers.	9 5 7		
a. Increasing force		c. Decreasing spec	ed	
4is o	an example of materials that are elec			
a. Wood	b. Plastic	c. Iron		
5. 🛨 Each stoma is sur	rrounded by twocel	ls.		
a. animal	b. guard			
c. absorbing	d. leaf			
B) Write the functio	n or importance of:			
1. The inert gas in the				
				2225
2. The glass bulb of th				
3. 🖈 The root system	Market and the second s		•••••••••	******
A) Put (✓) or (X):				7.50
1. Fires resulted from	electricity are extinguished by water.		(
2. The lunar eclipse of	ccurs at the end of the lunar month.		7(
	ener is a second class lever.		(
	directly through the solar eclipse.		(
	en resistance and fulcrum is called res	sistance arm.	(
b. The human body is	a conductor of electricity.		(
B) What happens who	en?			
-,	nan one lamp in an electric circuit in p	arallel.		
The tea 100				
1. Connecting more th	ontains the atmospheric air.			



) Write the scientific terms:			
1. Levers that have the force between	the resistance an	d the fixed point.	(
2. Means of converting the electric en	ergy to light ener	gy.	(
3. One of the dangers of the electricity	is that it destroys	the tissues of the	body.(
4. It occurs when the Moon comes be	tween the Earth o	and the Sun on on	e straight
			(
5. * A vital process carried out by the	e plant to produce	its own food.	(
The force affecting a second class le	ver equals 200 N	lewton and the l	ength of it
50 cm and a resistance with a value	e of 1000 Newton	n, calculate the v	value of th
of the resistance.			
	ces: les of the first clas	s levers.	
Complete the following senten 1andare examp 2. The law of levers states that 3. The fluorescent lamp contains 4andare examp	ces: les of the first clasgas. les of materials th	at are electric co	
1andare examp 2. The law of levers states that 3. The fluorescent lamp contains 4andare examp Compare between the solar ec	ces: les of the first clasgas. les of materials th	at are electric co	onductors.
1andare examp 2. The law of levers states that 3. The fluorescent lamp contains	ces: les of the first clasgas. les of materials th	at are electric co	onductors.
1andare examp 2. The law of levers states that 3. The fluorescent lamp contains 4andare examp Compare between the solar ec	ces: les of the first clas gas. les of materials the lu	at are electric co	onductors.
1andare examp 2. The law of levers states that 3. The fluorescent lamp contains 4andare examp 3) Compare between the solar ec Solar eclipse	ces: les of the first clas les of materials the lipse and the lu	s levers. nar eclipse:	onductors.
1andare examp 2. The law of levers states that 3. The fluorescent lamp contains 4andare examp Compare between the solar ec Solar eclipse	ces: les of the first clas les of materials the lipse and the lu	s levers. nar eclipse:	onductors.

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1.	There are two pieces of lead in the light bulb.		
2.	Not placing flammable materials too close to the electric machines that g	enero	te he
	orrect the underlined words:		
	The electric lamp converts the electric energy to the kinetic energy.	(
2.	There are three connecting points at each end of the light bulb ends.	(
7.	The glass bulb of the electric lamp contains <u>hydrogen</u> gas.	(
4	The electric lamps are connected in the house in series.	(
5.	★ Leaves extend in the soil and penetrate it to increase the surface area		
	of absorption.	(
A) P	ut (✓) or (X):		
X.	The first class levers has the resistance between the force and the fulcrum.		(
	More than one type of solar eclipse can be observed.		(
13.	The crowbar is an example of the first class levers.		(
	★ Plant loses water in the form of water vapor in the photosynthesis process.		(
D) W	What hammana when 2		
- 2	Vhat happens when? You make the filament of the light bulb from iron.		

2.	There is air inside the light bulb.	*************	



Which of the fo	llowing levers saves et	ffort?	
a. Scissors	b. Nutcracker	c. Sweet holder	d. Coal holder
2. The electric wir	es must be covered w	ith	
a. glass	b. copper	c. wood	d. plastic
	0.000	occurs in the	of the lunar ma
a. middle	b. end	c. beginning	d. quarter
4	occur(s) when placi	ng flammable materi	als near to electric mac
that generate h	Allen and the second se		
a. Electric shoc	k b. Electric burn	c. Electric fire	 Indirect injuries
B) A first lever is	affected by 10 New	vton force with an	arm of 10 cm length
a resistance o	The second secon		
	ength of arm of resista	ince.	
b. Does the lever	save effort? Whu?	N	
C) What hannons	whon -2		
C) What happens			
1 Thoughold Mac			
1. The whole woo	on enters the semi-sna	ded area of the Earth	
			•
	the electric lamp is m		
2. The filament of	the electric lamp is m	ade of iron.	
2. The filament of	the electric lamp is m	ade of iron.	
2. The filament of 3. *The cell mer	the electric lamp is m	nade of iron. rs of the plant is not f	
2. The filament of 3. *The cell mer	the electric lamp is morane of the root hai	nade of iron. rs of the plant is not f	ound.
2. The filament of 3. *The cell mer	the electric lamp is morane of the root hai	nade of iron. rs of the plant is not f	
2. The filament of 3. *The cell mer A) Complete the 1. The crowbar is as a	the electric lamp is morane of the root hai	rs of the plant is not f	ound.
2. The filament of 3. *The cell mer A) Complete the 1. The crowbar is as ac 2. The light bulbs	the electric lamp is membrane of the root hai considered as a	rs of the plant is not f	ound.
2. The filament of 3. *The cell mer A) Complete the 1. The crowbar is as a 2. The light bulbs 3. Electric shock of	the electric lamp is moreone of the root hai considered as a lass lever. in the house are connections	rs of the plant is not f	ound. The nutcracker is considered by the human body.
2. The filament of 3. *The cell mer A) Complete the 1. The crowbar is as a	the electric lamp is membrane of the root hair following sentence considered as a	rs of the plant is not f	ound. The nutcracker is considered by the human body.
2. The filament of 3. *The cell mer 1. The crowbar is as a 2. The light bulbs 3. Electric shock of 4. The solar eclips B) Write the labe	the electric lamp is membrane of the root hair following sentence considered as a	rs of the plant is not f	ound. The nutcracker is considered by the human body.
2. The filament of 3. *The cell mer A) Complete the 1. The crowbar is as a	the electric lamp is membrane of the root hair following sentence considered as a	rs of the plant is not f	ound. The nutcracker is considered by the human body.
2. The filament of 3. *The cell mer 1. The crowbar is as a 2. The light bulbs 3. Electric shock of 4. The solar eclips B) Write the labe	the electric lamp is membrane of the root hair following sentence considered as a	rs of the plant is not f	ound. The nutcracker is considered by the human body.

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A) Give a reason for:	
 Water is not used to put out e 	electric fires.
2. There must be a switch in the	
3. We should not look at the Sun	n with the naked eye.
	e resistance in the first class levers.
B) Label the opposite figure:	
1	(3)
2	
3.	
4	(4)
) Write the scientific term for	the following:
1. The fixed point on which the le	ever rotates. (
2. The area that lies between the	e real shadow area and the lighted area. (
3. Materials that don't allow the	e electric current to pass through. (
4. A way of connecting the elect	ric lamps in which all the lamps are turned off
when one of them burns out.	
B) Correct the mistake in each	n of the following sentences:
	nine to one socket causes electric shock. (
2. A fluorescent lamp contains th	
3. Special glasses are used to obs	
4. Electric wires are made of plas	stic. (
C) Complete between the solar	eclipse and the lunar eclipse:
the state of the s	Solar eclipse Lunar ecli
P.O.C	
P.O.C Duration	





(5	Giza - Giza Educational Administration - Orman Language School
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Complete the following sentences: The nutcracker is a	, while the scissors areclass lever.
2. The fluorescent lamps contain inert argo	
Impure water cannot be used to put out	t the fire resulting from
4. The solar eclipse occurs when the	comes between the Earth and the Sun on
the same straight line.	
5. 🛨 Thein plant is surrounded b	y two guard cells.
B) What happens when?	
1. The arm of resistance is longer than the	arm of force of a lever.
2. Connecting more than one lamp in an el	
	lectric circuit in parallel.
hoose the correct answer:	lectric circuit in parallel.
hoose the correct answer:	
hoose the correct answer:	n the fluorescent lamp but not in the light bulb?
hoose the correct answer: 1. Which of the following gasses is found in	n the fluorescent lamp but not in the light bulb?
hoose the correct answer: 1. Which of the following gasses is found in	n the fluorescent lamp but not in the light bulb? (Neon – Argon – Mercury vapor orce between the resistance and the fulcrum?
Thoose the correct answer: 1. Which of the following gasses is found in	n the fluorescent lamp but not in the light bulb? (Neon – Argon – Mercury vapor orce between the resistance and the fulcrum? (Nutcracker – Scissors – Sweet holder
Thoose the correct answer: 1. Which of the following gasses is found in 2. Which of the following levers has the fo	n the fluorescent lamp but not in the light bulb? (Neon – Argon – Mercury vapor orce between the resistance and the fulcrum? (Nutcracker – Scissors – Sweet holder (First – Second – Third
1. Which of the following gasses is found in	(Neon – Argon – Mercury vapor orce between the resistance and the fulcrum? (Nutcracker – Scissors – Sweet holder (First – Second – Third

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الصف السادس الابتدائي

(.....)

3 A) Write the scientific t	term:
-----------------------------	-------

- 1. A tool used for converting the electric energy to light energy.
- 2. Fires that occur as a result of the increase in the temperature of the electric machines.
- 3. It occurs to the Moon when it completely enters the shadow area of the Earth.
- 4. The fixed point of a rigid bar.
- The outer layer of the root of the plant.
- B) The force arm length of a third class lever is 5 cm and the length of the arm of the resistance is 15 cm. If the resistance has a value of 300 Newton, calculate the value of the affecting force.

A) Correct the underlined words:

- 1. Second class levers always don't conserve effort.
- 2. Annular solar eclipse occurs in the shadow area of the Moon.
- 3. Although crowbar is a third class lever, it conserves effort.

B) Look at the opposite two figures

(A & B), then answer in spaces below each one as required?

- 1. What is the way of connection in each circuit?
- 2. What happens when the light bulb number (2) in each circuit burns out?

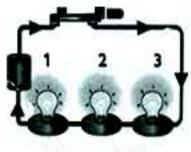


Figure (A)



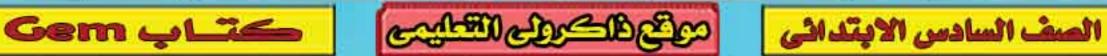
Figure (B)

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6 Giza - Abo El-Nomrous Educational Zone - Ahmos Language Sc	1001
A) Complete:	
1. The light bulb consists of filament,andand	
2. From precaution in dealing with electricityandand	
3. The lunar eclipse occurs when the Sun, Earth andin one straight li	ine and
in the middle.	
4. The type of solar eclipse differs due to the movement ofin from	t the Sun.
5. 🛨 Plants make their own food duringprocess.	
B) Classify the following machines according to the type of levers:	
Bottle opener	
3. Water opener 4. Tweezers	
5. Wheelbarrow 6. Nutcracker	
A) Write the scientific term:	
A tool used to convert the electric energy into light energy.	()
2. Fires that occur as a result of the increase in the temperature of electric wires.	. ()
3. An astronomical phenomenon that occurs when the Earth, Sun and Moon	
are on one straight line and the Moon in middle.	()
B) Correct the underlined words:	
1. Copper and iron are electric insulators	()
2. To connect lamps in parallel, they are connected one after another.	()
In the first class levers the resistance force is between fulcrum and effort force.	()
 ★ Umbra is a <u>semi-dark</u> area where the total solar eclipse occurs. 	()
5. ** Transpiration is losing of water in the shape of water droplets.	()

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1. When the whole	Moon enters the shade	ow area (umbra) of Earth,occur
 a. partial lunar e 	eclipse	 b. total lunar eclipse
 total solar ecl 	ipse	 d. partial solar eclipse
2. Water can't be us	sed to put out electric	fires because it is
 a good conduction 	ctor of electricity	 a bad conductor of electricity
c. not cold		d. may evaporate
Which of the follo	wing gases is found in th	e fluorescent lamp but not in light bulb?
a. Neon		b. Argon
c. Mercury vapor	r	d. Water vapor
4. * We can see a p	art of the Sun in the	***************************************
a. umbra		b. penumbra
c. all the previou	us answers	d. no correct answers
B) Give a reason fo	r:	
1. The second class	lever always conserve	es effort.
	k at the Sun directly w	ith the naked eye during the solar eclipse.
		a selective permeability property.

B) Choose from column A what suits it from column B:

(A)	(B)
1. From indirect injuries is	a) Thomas Alpha Edison.
2. Who invented the light bulb?	b) to avoid dangers.
3. From the importance of lever is	c) falling from top of a ladder.

C) * Compare between:

Osmosis property and selective permeability.



) Complete the following question:	
The filament of the light bulb is made of because it has	high
2. Thelead to destroying the tissue of the body.	
3occurs when a part of the Moon enters the Earth's umb	ra.
4. ** Root hairs extend from the and are lined from inside	with a thin layer o
······································	
B) Give a reason for:	
1. We shouldn't look directly at the Sun with the naked eye during	the solar eclipse
2. The glass bulb in the light bulb is filled with inert argon gas inst	ead of air.
	ead of air.
The glass bulb in the light bulb is filled with inert argon gas instance. A) Write the scientific term: 1. A rigid bar that rotates on a fixed point and is affected by a force are	
A) Write the scientific term:	
A) Write the scientific term: 1. A rigid bar that rotates on a fixed point and is affected by a force and the scientific term:	nd resistance. (
A) Write the scientific term: 1. A rigid bar that rotates on a fixed point and is affected by a force ar 2. The type of levers that do not save effort.	nd resistance. (
A) Write the scientific term: 1. A rigid bar that rotates on a fixed point and is affected by a force ar 2. The type of levers that do not save effort. 3. A way of connecting the lamp and machines in houses.	nd resistance. (

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The force of 50 N affected a lever of the resistance if the arm of the re-		orce arm is 20 cm, co

) Correct the underlined word	s:	
1. The electric lamp converts the e	electric energy into kinetic er	nergy. (
2. Wood is considered a good cond	luctor of electricity.	(
3. The penumbra is the dark inner s	shadow area where the total	l solar eclipse occur.
		(
4. * Plant absorbs <u>nitrogen</u> gas du	ring the photosynthesis proc	ess. (
) Compare:		
Point of comparison	2 nd class levers	3 rd class lever
Definition		

Example		***************************************
Example		
		/ r
) What happens when?		
 The electric lamp contains the at 	tmospheric dir.	
	COLUMN TO STEP A POSTE A CANADA SE CONTRACTA A CANADA SE	
	ectric socket.	





) Write the scientific term:	
1. A flow of electric charges that passes through a conducting material.	(
2. Levers in which effort force lies between the resistance force and the fulcru	um.
	(
3. An area that if the whole Moon is located in, there will be no eclipse.	(
4. It is a way in which the light bulbs are connected one after another in one route	1900
5. Distance between the effort force and the fulcrum.	(
Closed and continuous path through which electric current passes making a complete cycle.	(
	(
) Give a reason for:	
Lamps are connected in parallel at home.	
2. There is no annular lunar eclipse.	
3. Crowbar is a first class lever.	
) What happens when?	
1. Force arm equals resistance arm.	
2. A part of the Moon enters shadow area of the Earth.	
3. Filament of the light bulb is made of iron.	/*************************************
) Problems:	
- A lever has an effort force of 50 Newton, and the length of its force of	arm is 2
If it is affected by a resistance force of 20 Newton, then:	
a. Calculate the length of resistance arm.	

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الصف السادس الابتدائي

3	Complete the following sentences:	
	1. Glass tube of the fluorescent lamp is filled with and and	
	2. The duration of solar eclipse is about, while duration of lunar e	eclipse is
	about	
	3 and are some of the dangers of direct electricity.	
	4. The lever is a bar that rotates around a fixed point called	
	5. The wheelbarrow is aclass lever, while the paddle is a	class lever.
	6. There are two types of lamp bases: base and base.	
4	A) Correct the underlined words:	
	 The human body is a good conductor of electricity as it contain gases. 	()
	2. Plugging more than one machine to one socket causes electric burn.	()
	3. During the start of total lunar eclipse, the Moon tends to be <u>yellow</u> .	()
	4. The third class lever always saves effort.	()
	5. The simple electric circuit consists of a battery, a lamp and <u>an insulator</u> .	()
	6. ★ The plant loses water in form of water vapor during the photosynthesis proce	ss. ()
	B) What is meant by?	
1	- The solar eclipse.	
	C) Label the following figure:	56)
	C) Laber the following rigure:	
	2	(5)
	3.	
	4	
	5	
	6	



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A) Complete the follo	owing question:	
1. Tweezers are consider	lered aclass lever but the wheelbarrow is aclo	iss l
2. There are two ways	for connecting lamps, connecting in and connecting in	
3. The light bulb consis	sts of the tungsten filament, and and	
4. The solar eclipse phe	enomenon occurs when theis located between the	
and the Sun on one s	straight line.	
5. ** Root hairs absorb	water from the soil by the property of	
B) The exerted force of o	a balanced lever equals 50 Newton and the length of its arm	ı is
and is affected by a re	esistance with a value of 20 Newton, calculate the length of t	he
of its resistance.		
(Write the law).		
A) Correct the under	lined words:	
	sed to decrease speed. (
	of lunar eclipse occurs in the starting of the lunar month. (
4. The force is a fixed	point that the bar rotates on. (
B) Give a reason for:		
1. The filament of the	light bulb is made of tungsten.	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2. The first class lever	rs sometimes conserve effort.	
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	rs sometimes conserve effort.	

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 Means of converting the electric energy to light energy. 	(
The lever used for moving the force and increasing distance.	(
3. The phenomena that occurs when the entire Moon falls in the shad	dow of the Earth.
	(
 One of the dangers of electricity that occurs as a result of the increase. 	ease in the
temperature of the electric machines.	(
B) Look at the opposite figure, then answer the following qu	estions:
The opposite figure represents aclass lever.	orce
2. Does this lever conserve effort?	Resistance
3. Give reasons for your answer.	
Choose the correct answer: Fulcrum	
	gen – mercury vapor
1. The fluorescent lamp contains a little of (oxygen – nitro	gen – mercury vapor
The fluorescent lamp contains a little of	
The fluorescent lamp contains a little of (oxygen - nitrogeneral contains a little of	s — an hour — 2 hours
The fluorescent lamp contains a little of (oxygen - nitrogeneral contains a little of	s — an hour — 2 hours
The fluorescent lamp contains a little of (oxygen - nitrogeneral contains a little of	s – an hour – 2 hours class lever. first – second – third
The fluorescent lamp contains a little of (oxygen - nitrogeneral contains a little of	s – an hour – 2 hours class lever. first – second – third easing the number of
1. The fluorescent lamp contains a little of (oxygen - nitro) 2. The duration of the solar eclipse does not exceed (seven minutes) 3. The resistance is between the force and the fulcrum in the 4. When we connect light bulb in an electric circuit in series with increase bulbs, lightening of the bulbs (decreases - increase)	s – an hour – 2 hours class lever. first – second – third easing the number of s – remains constant
 The fluorescent lamp contains a little of (oxygen - nitro) The duration of the solar eclipse does not exceed (seven minutes) The resistance is between the force and the fulcrum in the	s – an hour – 2 hours class lever. first – second – third easing the number of s – remains constant
 The fluorescent lamp contains a little of	s – an hour – 2 hours class lever. first – second – third easing the number of s – remains constant
 The fluorescent lamp contains a little of	s – an hour – 2 hours class lever. first – second – third easing the number of s – remains constant
 The fluorescent lamp contains a little of	s – an hour – 2 hours class lever. first – second – third easing the number of s – remains constant bility – transpiration





(Dakarilla - Dakarilla I			
	A) Write the scientific te	rm:		
	1. One of the dangers of the	e electricity is that it dest	roys the tissue of the bo	ody. ()
	2. It occurs when the Moon o	comes between the Earth a	nd the Sun on one straigh	nt line. ()
	3. It's the measuring unit o	of resistance and force o	of effort.	()
	4. The materials that allow	w the flow of electricity	through them.	()
	5. A way of connecting the	e lamps and machines in	houses.	()
	6. The levers that sometin	nes conserve effort.		()
	7. * The process by which	n plants lose the excess	water.	()
	B) A third class lever of 200	Newton force and its	arm is 5 cm affects on	a resistance
	of 100 Newton, calcula			100
	balanced.	to the tength of the re-		
	C) Mention two function	ns of the levers.		
	1.		2	
	A) Choose the correct ar	nswer:		
	1. Lunar eclipse is formed		he lunar month.	
	a. beginning	b. middle	c, end	d. after 5 days
	2. The fluorescent lamp co	ontains the inert	gas.	
	a. hydrogen	b. nitrogen	c. argon	d. helium
	3. Which lever does not co	onserve effort?		
	a. Wheelbarrow	b. Nutcracker	c. Manual broom	d. Bottle opener
	4. Electricre	esults when your body is	a part of an electric c	ircuit.
	a. fire	b. shock	c. burn	d. insulator
	5. Plugging many applian	ces to one socket	may cause.	
	a. heating up of wires	b. electric overload	c. fires	d. (a), (b), (c)
	6. All the following mate	rials allow the flow of tl	ne electric current exc	ept
	a. iron	b. aluminum	c. rubber	d. copper
	7. * The last row of cort	ex layer is called		
	a. cortex	b. endodermis	c. xylem	d. pith

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GEM / Science / Primary 6

مذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلومة

1. We should not look directly at the Sun with the naked eye during the solar eclipse. 2. There are two points of connection at each tip of the fluorescent lamp. A) Complete the following sentences: 1. During lunar eclipse, lies between and 2. The filament of the lamp is made of as it has point. 3. The electric current has only one path when the light bulbs are connected in 4. In the area of the shadow, the light source cannot be seen completely. 5. You cannot put out the electric fire with water because water is of electricing. B) What happens when? 1. The whole Moon enters the semi-shaded area of the Earth. 2. One of the electric lamps burns out, while it is connected in parallel with the other. 3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (//) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. (2. You must leave an electric machine connected with the electric current while taking a bath. (3. The Moon is colored in blue at the start of the total lunar eclipse. (4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. (6. The electric lamp converts the light energy to electric energy. B) Look at the figure, then write the labels: 1	B) Give a reason for:	
A) Complete the following sentences: 1. During lunar eclipse,	1. We should not look directly at the Sun with the naked eye during	g the solar eclipse.
1. During lunar eclipse, lies between and point. 2. The filament of the lamp is made of as it has point. 3. The electric current has only one path when the light bulbs are connected in 4. In the area of the shadow, the light source cannot be seen completely. 5. You cannot put out the electric fire with water because water is of electricisms. 8) What happens when? 1. The whole Moon enters the semi-shaded area of the Earth. 2. One of the electric lamps burns out, while it is connected in parallel with the other. 3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (✓) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. 2. You must leave an electric machine connected with the electric current while taking a both. 3. The Moon is colored in blue at the start of the total lunar eclipse. 4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. 8) Look at the figure, then write the labels: 1	2. There are two points of connection at each tip of the fluorescent	lamp.
2. The filament of the lamp is made of as it has point. 3. The electric current has only one path when the light bulbs are connected in 4. In the area of the shadow, the light source cannot be seen completely. 5. You cannot put out the electric fire with water because water is of electricis. 8) What happens when? 1. The whole Moon enters the semi-shaded area of the Earth. 2. One of the electric lamps burns out, while it is connected in parallel with the other. 3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (✓) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort.(2. You must leave an electric machine connected with the electric current while taking a both.(3. The Moon is colored in blue at the start of the total lunar eclipse. 4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. 8) Look at the figure, then write the labels: 1	A) Complete the following sentences:	
3. The electric current has only one path when the light bulbs are connected in	1. During lunar eclipse,lies betweenandand	
3. The electric current has only one path when the light bulbs are connected in	2. The filament of the lamp is made ofas it has	point.
4. In thearea of the shadow, the light source cannot be seen completely. 5. You cannot put out the electric fire with water because water is of electricists. B) What happens when? 1. The whole Moon enters the semi-shaded area of the Earth. 2. One of the electric lamps burns out, while it is connected in parallel with the other. 3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (√) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. 2. You must leave an electric machine connected with the electric current while taking a bath. 3. The Moon is colored in blue at the start of the total lunar eclipse. 4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. 8) Look at the figure, then write the labels: 1		
5. You cannot put out the electric fire with water because water is		
 The whole Moon enters the semi-shaded area of the Earth. One of the electric lamps burns out, while it is connected in parallel with the other. ★ The absence of guard cells which surround the stomata in the plant's leaf. Put (✓) or (X): If the arm of force is shorter than the arm of resistance, then the lever conserves effort.(You must leave an electric machine connected with the electric current while taking a bath.(The Moon is colored in blue at the start of the total lunar eclipse. Coal holder is used to avoid dangers. The human body is a good conductor of electricity. The electric lamp converts the light energy to electric energy. B Look at the figure, then write the labels: (a) (b) (a) (b) 		75 VED
 The whole Moon enters the semi-shaded area of the Earth. One of the electric lamps burns out, while it is connected in parallel with the other. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (✓) or (X): If the arm of force is shorter than the arm of resistance, then the lever conserves effort.(You must leave an electric machine connected with the electric current while taking a bath.(The Moon is colored in blue at the start of the total lunar eclipse. Coal holder is used to avoid dangers. The human body is a good conductor of electricity. The electric lamp converts the light energy to electric energy. B) Look at the figure, then write the labels: (a) (b) (c) (d) (d) (d) (d) (d) (d) (d) (e)	B) What happens when?	
3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (/) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort.(2. You must leave an electric machine connected with the electric current while taking a bath.(3. The Moon is colored in blue at the start of the total lunar eclipse. 4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. B) Look at the figure, then write the labels: 1		
3. ★ The absence of guard cells which surround the stomata in the plant's leaf. A) Put (✓) or (X): 1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. (2. You must leave an electric machine connected with the electric current while taking a bath. (3. The Moon is colored in blue at the start of the total lunar eclipse. (4. Coal holder is used to avoid dangers. (5. The human body is a good conductor of electricity. (6. The electric lamp converts the light energy to electric energy. (B) Look at the figure, then write the labels: 1. (3) (4) (4)	2. One of the electric lamps burns out, while it is connected in para	llel with the other.
1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. (2. You must leave an electric machine connected with the electric current while taking a bath. (3. The Moon is colored in blue at the start of the total lunar eclipse. (4. Coal holder is used to avoid dangers. (5. The human body is a good conductor of electricity. (6. The electric lamp converts the light energy to electric energy. (8) Look at the figure, then write the labels: 1		plant's leaf.
1. If the arm of force is shorter than the arm of resistance, then the lever conserves effort. (2. You must leave an electric machine connected with the electric current while taking a bath. (3. The Moon is colored in blue at the start of the total lunar eclipse. (4. Coal holder is used to avoid dangers. (5. The human body is a good conductor of electricity. (6. The electric lamp converts the light energy to electric energy. (B) Look at the figure, then write the labels: 1		
2. You must leave an electric machine connected with the electric current while taking a bath.(3. The Moon is colored in blue at the start of the total lunar eclipse. 4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. 8) Look at the figure, then write the labels: 1		er conserves effort.(
4. Coal holder is used to avoid dangers. 5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. 8) Look at the figure, then write the labels: 1		
5. The human body is a good conductor of electricity. 6. The electric lamp converts the light energy to electric energy. (a) Look at the figure, then write the labels: 1		Management of the Control of the Con
6. The electric lamp converts the light energy to electric energy. (a) 1	4. Coal holder is used to avoid dangers.	
1		(
1	The electric lamp converts the light energy to electric energy.	(
4	B) Look at the figure, then write the labels:	(4)
4		
4	2	(3)
4	2	
(1)	A.	(2)
C) Write components of the simple electric circuit:		
	C) Write components of the simple electric circuit:	(1)
1	1	
3	3	



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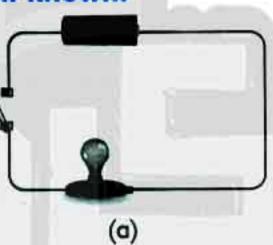
A) Choose the correct answer:

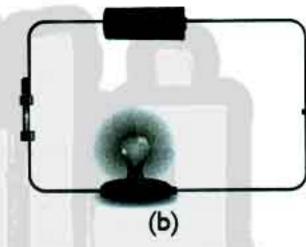
- 1. Duration of lunar eclipse extends for more than (6-4-2) hours.
- 2. The filament inside the electric lamp is made of (aluminum tungsten iron).....
- 3. The scissors are two levers of the (first second third).......class lever.
- 4. Solar eclipse always occurs (during day during night at dawn)......
- Losing water from plant is called the ______process.

(photosynthesis - transpiration - osmosis)

B) The device which is drawn is well-known:

- Give a name to this device.
- 2. What happens in case that any of the parts are not connected?





2 A) Choose from column (B) which suits in column (A):

(A)	(B)
1. Most electric machines produce	a) the partial lunar eclipse occurs.
2. Coal holder is a lever used to	b) heat.
3. Electric lamp is prevented from air to burn its filament by	c) avoid dangers.
 When a part of the Moon enters the shadow area of the Earth, 	d) the glass bulb.

B) Write the scientific term:

- 2. Injuries caused by electricity which are not a direct cause.

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعود





الصف السادس الابتدائي

2.	Second class levers always conserve the effort.	
B) C	orrect the underlined words:	
1.	Connecting the electric lamps in the house must be in series.	(
2.	Solar eclipse occurs when the Earth comes between the Moon and the Sun.	(
3.	Light becomes bright when we connect more than one bulb in series.	(
4.	Fluorescent lamp contains oxygen gas inside.	(
	★ Plant absorbs nitrogen gas during the photosynthesis process.	· (
	ut (√) or (X):	V
	Lunar eclipse causes harms to the eyes.	1
	We must not play with electric connections.	ì
	Copper and iron are insulators to electricity.	
	Third class levers do not conserve the effort.	i
B) C	omplete the following:	
1.	Lunar eclipse can be seen from any place on theand when it starts	the color o
	the Moon tends to be	
2.	★ The cell membrane of the root hair has property which allows s	ome salts t
	pass through.	



A) Co	omplete the following sentences:	
1.	The nutcracker is an example of thelevers.	
2.	is a fixed point that a rigid bar rotates on.	
	In the case of connecting the lamps in the lighting of the lamps de	ocreases wi
		sci euses w
,	their increase in number.	
4.	eclipse is formed when part of the Moon enters umbra of the Eart	h.
B) G	ive a reason for:	
1.	We should not look at the Sun with the naked eye during the solar eclipse.	
	Some levers are important although they do not conserve effort.	
A) W	rite the scientific term:	
1.	Distance between the fulcrum and the resistance.	(
2.	Levers sometimes conserve the effort.	(
3.	One of the dangers of the electricity is that it destroys the tissues of the body.	(
4.	It occurs when the Moon lies between the Earth and the Sun in one straight line.	(
B) W	/hat happens when?	
1.	The force equals to the resistance in the first class lever.	
	V	***************************************
2.	You insert a metallic bar in an electric socket.	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





The fluorescent lamp containsgas.	(oxygen – argon – chlo
2. The phenomenon of the lunar eclipse occurs in the	of the lunar month.
	(first – middle –
3. The filament of the light bulb is made of	(tungsten – copper –
4. Seesaw is fromclass levers.	(first - second -
5. 🛨 The plant gets mineral salts through	
(selective permeability –	osmosis property – transpiro
B) What is the importance of?	
A glass bulb in the light bulb.	
2. Second class lever.	
A) Correct the underlined words:	
1. The lunar eclipse occurs two times each month.	
2. The electric lamp changes the electric energy into kine	tic energy. (
3. Rubber is from the materials that allow the flow of ele	ctricity through it. (
4. Solar eclipse duration does not extend more than two hou	rs and forty seconds. (
5. * Plants carry out the photosynthesis process to get ri	d of excess water. (
	e resistance is 15 cm. If
B) The length of the force arm is 5 cm and the length of th	
B) The length of the force arm is 5 cm and the length of the the resistance has a value of 300 Newton, calculate the	value of the affecting force



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 If the length of effort force arm is longer than the res 	sistance arm, so the eff	fort force
than the resistance force.		
2occurs as a result of passing electric current	through the human b	ody.
3occurs when the whole Moon enters the Ea	rth's umbra.	
4. The outer layer of root is called		
B) Lever has fulcrum between resistance force and effort ford and length of force arm is 2 cm.	orce if the effort force	is 200 N
Calculate the value of resistance force if the length of	resistance arm is 4 cm.	Does th
lever conserve effort or not?		
	en the Sun, Earth and	
A) Write the scientific term: 1. It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in		(
1. It is an astronomical phenomenon which occurs who		(
It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in	n the middle.	
 It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in The distance between fulcrum and resistance. 	n the middle.	
 It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in The distance between fulcrum and resistance. They are burns that result from electricity and cause 	e the damage of	(
 It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in The distance between fulcrum and resistance. They are burns that result from electricity and cause body tissues. 	e the damage of umbra.	(
Moon are nearly on a straight line with the Moon in 2. The distance between fulcrum and resistance. 3. They are burns that result from electricity and cause body tissues. 4. It occurs when part of the Moon enters the Earth's expression of the Moon enters the Earth's expression.	e the damage of umbra.	(
 It is an astronomical phenomenon which occurs who Moon are nearly on a straight line with the Moon in 2. The distance between fulcrum and resistance. They are burns that result from electricity and cause body tissues. It occurs when part of the Moon enters the Earth's in 5. The losing of water in the shape of water vapor for the Moon in the shape of water vapor for the Moon enters the Earth's in the shape of water vapor for the Moon in the shape of water vapor for the Moon enters the Earth's in the shape of water vapor for the Moon enters the Earth's in the shape of water vapor for the Moon enters the Earth's in the shape of water vapor for the Moon enters the Earth's in the shape of water vapor for the Moon enters the Earth's in the Sha	e the damage of umbra. rom the plant leaves.	(

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





الصف السادس الابتدائي

1.	We can observe the lunar eclipse who	en the Moon phase is the	······································
	a. crescent	b. 1st quadrature	
	c. full Moon	d. new Moon	
2.	From levers which conserve effort is		
	a. manual broom b. tweezers	c. wheelbarrow	d. coal holder
3.	The lunar eclipse occurs	***************************************	
	a. twice per year	b. once every 21 ye	ears
	c. we cannot predict it	b. once per month	
4.	Levers were first described in 260 BC	by the Greek scientist	
	a. Tomes alpha Edison	b. Newton	
	c. Archimedes	d. Bohr	
B)	Compare between the first class	lever and the third cla	ass lever:
	P.O.C	First class lever	Third class leve
	Definition		
		***************************************	***************************************
	Example		
	Look at the figure in front of you		
Į.	- (1) points to		
	and its function		
u.	- (2) points to		(1)
	and its is made of		(2)
	- (3) points to		
	and its function		(3)
B)	Give a reason for:		
	 Some levers are important for man of 		
	2. Don't place furniture close to electri		





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A) Complete the followin	g sentences:	
1. The fluorescent lamp co	ntains gas and little of	
2. When the arm of force ed	quals the arm of resistance, the	is equal to the
3. When a part of the Moo	n enters the Earth's umbra,ph	enomenon occurs, while
phenomenon o	occurs when the cone shadow of the Mo	on does not reach
the Earth's surface.		
4. The filament of the bulb	is made of and that is because	e it has a high
B) What happens when .	?	
1. We put out the electric	fires by water.	
A) Write the scientific te		
		A f
	lectricity causing damage to the tissues	of the body.(
	e flow of electric current through them.	(
1.59	ch the Sun disappears completely.	(
4. A method when electric	: lamps are connected one after another	. (
B) Look at the figure, the	n answer the following:	
1. The figure represents		
2. Write the labels:		
1	2.	(4)
	4	(3)—
3		200 Page 10 10 10
3. The part no. (2) should		(2)



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داد داد

بذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





الصف السادس الابتدائي

	a. Seesaw.	b. Wheelbarrow.	c. Sweet hold	er.
2.	The duration of the lu	nar eclipse is	that of the solar eclipse	.
	a. longer than	b. shorter than	c. equal to	
3.	The force arm is some	times equal to the resistance	arm in	class lev
	a. first	b. second	c. third	
4.	the Earth.	eclipse is formed when the N	loon is located in an orb	it higher
	a. Total	b. Partial	c. Annular	
B)	Give a reason for:			
i i	1. There are two pieces	of lead in the light bulb.		
	2. The third class lever	does not conserve effort.		
	3. 🛨 The presence of hi	ghly concentrated sap vacuol	e in root hairs.	
A)	Mention the functio	n of levers in:		
1.	Tweezers:			
2.	Nutcracker:			
3.	Hockey bat:			
4.	Manual broom:			
B)	Correct the underlin	ned words:		
1	I. The lunar eclipse occ	urs at a rate of two times per	month.	(
2	2. <u>Annular</u> solar eclipse	occurs in the semi-shaded are	ea of the Moon.	(
3	. Fires resulted from el	ectricity are put out by water	,	(
4	. The first class lever h	as the resistance between the	force and the fulcrum.	(
5	. * The membrane of	root hairs is impermeable.		(
C)	The length of the force	arm of a crowbar is 100 cm	and the length of the	pariet
-,		lue of resistance equals 400		
		on the type of the lever.	raewion. Culculate the	, vulue 0
	Silving to the dild lifeliti	on the type of the tevel.		



Sharkia - Sharkia Educational Directorate	
Write the scientific term:	
 The fixed point of a rigid bar on which the bar rotates. 	(
Levers that have the force between the resistance and the fixed point.	(
3. The type of levers that always conserve effort.	(
4. Means of converting the electric energy to light energy.	(
Materials that allow the electric current to pass through them.	(
6. The phenomenon that occurs when the Earth comes between the Moon	
and the Sun on one straight line.	(
7. *They are tiny holes found on the surface of the leaf.	(
A) Choose the correct answer:	
1. The force arm is sometimes equal to the resistance arm in the	class levers.
(first	– second – thi
2. The phenomenon of the lunar eclipse occurs in the of the luna	r month
(end	l – first – midd
3. When we increase the number of the electric lamps in the series conne	ction, their lig
intensity (increases – decreases – re	emains the san
B) Give a reason for:	
1. The filament of the light bulb is made of tungsten.	
2. Water cannot be used to put out the fire resulting from electricity.	
3. We should not look directly at the Sun with the naked eye during the so	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





الصف السادس الابتدائي

A) Complete the following:	
1. Levers are very important as they increase speed ,andand	•••••
2. The simple electric circuit consists of, and electr	ic switch.
3 and are examples of materials that are electric i	nsulators.
4. Types of the lunar eclipse are and	
B) The force affecting a second class lever equals 200 Newton and the 50 cm and a resistance with a value of 1000 Newton, calculate the of the resistance:	
1. Law of levers	>=====================================
2. Arm of the resistance =	
Correct the underlined words:	
1. The crowbar is an example of the third class levers.	()
2. The manual broom is an example of second class levers.	()
3. The glass bulb of the electric lamp contains <u>hydrogen gas</u> .	()
4. The electric lamps are connected in the house in <u>series</u> .	()
5. The electric fire occurs due to the passage of the electric current	
through the human body.	()
6. In the beginning of the total lunar eclipse, the color of the Moon	
tends to be <u>black</u> .	()
7 * Oxygen gas is produced during the respiration process in the plan	t.
	()



(16)	Port Said	- Directorate of Ed	lucation - Ins	pectorate of Science
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Complete the follo	wing:	
 The nutcracker is 	s an example of theclass l	ever.
2. Fluorescent lam	p is filled with an inertgas	•
3. In the solar eclip	ose,is found between the S	Sun and
4. All light bulbs ar	e connected inin the hous	se.
5. The manual brod	om is an example of thecl	ass levers.
6. 🛨con	trol the closing and opening of the s	stomata.
A) Choose the corn	ect answer:	791:
 The filament of the 	e light bulb is made of	•
a. iron	b. copper	c. tungsten
2. From the first cla	ss levers is	
a. nutcracker	b. sweet holder	c. scissors
3. From the example	es of good electric conductors is	
a, wood	b. plastic	c. copper
4. Force arm is some	etimes equal to resistance arm in	class lever

b, second

B) Match from column (A) with suitable in column (B):

(A)	
1. First class levers	a) Levers that always conserve the effort.
2. Second class levers	b) Levers that do not conserve the effort.
3. Third class levers	c) Levers that sometimes conserve the effort.
4. The fulcrum	d) Fixed point that a rigid bar sits on.

A) Write the scientific term:

a. first

1.	The phenomenon that occurs when a part of the Moon enters the shadow			
	area of the Earth.	()		
2.	Fires occur as a result of the increase in the temperature of the electric machines.	()		
3.	The rigid bar that rotates on a fixed point and is affected by force and resistance.	()		



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c. third

بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلوم





الصف السادس الابتدائي

B) Correct the underlined words:	
1. Looking directly at the lunar eclipse is harmful to the eye.	(
2. While connecting the lamps in parallel, the lamps are connected one aft	er anothe
	(
3. If the force arm is smaller than the resistance arm, the lever saves effort	. (
A) Give a reason for:	
1. Water cannot be used to turn off the electric fires.	
2. ** Root hairs can absorb water from the soil.	-
B) When would happen in each of the following cases?	***************************************
When the whole Moon enters the shadow (umbra) area of the Eart	h. 1
C) The force affecting a second class lever equals 200 Newton and the length	th of its
50 cm and has a resistance with a value 1000 Newton, calculate the val of the resistance.	24
D) Study the following figure, then complete:	



17 South Sinai - Science Supervision	
A) Complete the following sentences:	Branch and the second
1. In the third class levers, thelies	
2. From electric insulators and	
From the components of the electric circulation	
Solar eclipse occurs whenlies straight line.	between the and the Sun on the same
5. Thefrom electric dangers that	causes the damage of the human body tissues.
6. Sweet holder is an example of	levers.
B) Give a reason for:	
1. We cannot use water in putting out elec	tric fires.
2. Some levers are important for man although	ough they do not save effort.
3. The presence of stomata on the lowe	
A) Choose the correct answer:	
1is/are from second class levers	(Scissors – Wheelbarrow – Manual broom)
	with several other lamps, the light intensity of
the lamps	(decreases – increases – remains as it is)
3 is from the electric conductor	
	ers. (crowbar – bottle opener – manual broom)
	anges intoenergy.(kinetic – light – sound)
	the time taken by the lunar eclipse.
o. The time taken by the solar ectipse is	(less than – more than – equal)
B) Mention some of the important pro	ecautions when dealing with electricity:
1	
C) The apposite figure represents the	lunar eclipse phenomenon. Observe it,
then label the figure:	
then laber the rigure.	
1	
2	
3	

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلولة





(18) Fay	youm - S	cience S	uperv	ision
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. The fulcrum is between effort force a	ınd resistance inclass lever.
a. first	b. second
c. third	d. first and second
2. Fluorescent lamps contains	gas.
d. neon	b. argon
c. oxygen	d. hydrogen
3. Solar eclipse occurs when the	betweenand
a. the Sun, the Earth, the Moon	b. the Moon, the Earth, the Su
c. the Earth, the Sun, the Moon	d. the Sun, the Earth, Mars
4. All kinds ofclass levers con	serve effort.
a. first	b. second
c. third	d. first and second
5. *The membrane of root hairs is	
a. impermeable	b. permeable
c. semipermeable	d. no correct answers
A second class lever, its effort force is	100 Newton, its arm is 200 cm, th
a resistance force that equals 500 No	

A) Write the scientific term:

Resistance arm =

1. AW	dy or connecting buttos one diter dilother.		(/
2. Typ	e of lunar eclipse that occurs when the whole Moon	enters	
the	shadow area of the Earth (Umbra).		()
3. One	e of the dangers of electricity which causes the dame	ge of body tissues.	()
4 A fi	ved point which a rigid bar rotates around it		()



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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى





1.	The bulb filament is made up of tungsten.		
2.	You shouldn't observe the Sun directly.		••••
3.	× Root hairs can absorb water from the soil.	***************************************	******
A) P	ut (✓) or (X):	***************************************	
1.	The crowbar is a first class lever.	()
2.	In the electric bulb, the electric energy changes into kinetic energy.	()
	The lunar eclipse does not require precautions.	()
	In houses the electric lamps are connected in series.	()
B) C	lassify the following tools (levers):		
A) (Complete the following question:		
1.	From examples of good conductors of electricity areandand		
2.	. When a part of the Moon enters the shadow ofa a	or eclipse to	kes
	place.		
3.	The inner tube surface of the fluorescent lamp is covered with a	. substance o	and
	a little ofvapor.		
4.	★ The outer layer of root is called		
B) V	What happens when?		
	The effort force is between resistance and fulcrum.		
1.			
	. Placing an electric heater near to furniture.	*	



A) Complete the following: 1. The type of levers where the arm of the force and the arm of resistance are equal is		
2. In the solar eclipse,is found between the Sun and	************	********
3. Metallic materials are considered from the electric, while glass and rub	ber	are
considered from the electric		
4. The manual broom is aclass lever.		
B) * Rearrange the layers of the root from inside to outside:		
(Xylem - Pith - Epidermis - Cortex - Endodermis)		
A) Put (✓) or (X):		
1. The fulcrum in scissors lies between force and resistance.	(
2. The spiral base of the light bulb glows due to passing the electric current through it.	(3
3. If the force arm is smaller than the resistance arm, the lever saves effort.	(
4. The lunar eclipse occurs in the end of the lunar month.	(
5. The human body is a good conductor of electricity.	(
B) What happens when?		
1. Putting out the electric fires with water.		
2. The light bulbs in the house are connected in series.		
2. The tight butbs in the house are connected in scripts.		

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





1. A way used to connect electric lamps in branching ro	utes. (
2. It occurs when part of the Moon enters the shadow of	rea of the Earth. (
3. One of the dangers of the electricity is that it destroys	the tissues of the body.
4. Type of levers that does not save effort.	(
B) Give a reason for:	
1. We should not look at the Sun with the naked eye.	
2. Sometimes the first class lever saves effort.	
) Look at the figure, then answer	
1. The device is	(2)
2. Label the figure:	(1)-
(1)	
(3)	(3)——
A force of 50 Newton affected a lever of the 2 nd class the resistance given that the arm of the resistance =	









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1 A)	Comp	ete the	following	question
------	------	---------	-----------	----------

- 1. Materials that allow the of electricity through them are electric conductors.
- When connecting light bulbs in series, the light intensity of the lamps by increasing their numbers.
- 4. Accuracy in performance and avoid dangers are from tasks of theclass lever.
- 5. The is widely spread on the lower surface of the leaves.

B) What is meant by ...?

1. The lever.

Solar eclipse.

A) Choose the correct answer:

1. The duration of the lunar eclipse may last for more than

(two hours – two days – two months)

- 2. The fluorescent lamp contains the inertgas. (neon argon helium)
- 3. The types of the lunar eclipse are (total partial total and partial)
- 4. The filament of the light bulb is made of (copper tungsten iron)
- 5. *Water is transferred from the plant's stem to the leaves through

(endodermis – xylem vessels – stomata)

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هذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلولة





2.	Sometimes the first class levers do not save effort.	
Put	(✓) or (X):	•••••••
1.	Water is used to put out electric fires.	(
	Not leaving the wires naked is from the precautions of dealing with electricity.	(
	All lamps and machines in the house are connected in parallel.	(
	Falling from top of a ladder is considered from direct electric injuries.	(
5.	Plastic, glass, rubber and wood are from the examples of the electric insulators.	(
6.	In the third class levers, the resistance is between the effort force and the fulcrum.	(
7.	★ The endodermis layer regulates the passing of water to the xylem.	(
A) W	/rite the scientific term:	
1.	It is one of the dangers of electricity that occurs due to passing the electric curre	ent
	through the human body.	
2.	It is a type of electric lamps that consists of a glass tube and two filaments of tu	ngst
	and two points of connection.	
	force of 30 Newton affects a lever and its force arm is 20 cm, the resistant Newton. Calculate the resistance arm.	ce is
	Compare between the solar eclipse and the lunar eclipse.	



A) Write the scientific	term:		
1. It is the fixed point v	which the bar rotates around.		(
2. It is a way in which	the light bulbs are connected	one after another in or	ne route.
			(
3. One of the dangers	of electricity that causes the o	damage of the tissues o	f the body.
			(
4. It occurs when the	whole Moon enters the shado	w area of the Earth.	(
B) What happens who	en?		
1. Electric fires are put			
2. Looking directly at 1	the Sun.		
A) Complete the follo	wing:		
	wing: class lever, while the whe	elbarrow iscl	ass lever.
1. The seesaw is	class lever, while the whe		ass lever.
2. Electric lamps conve	rt the energy into	energy.	
The seesaw is Electric lamps conve	class lever, while the whe	energy.	
 The seesaw is	class lever, while the whe	energy.	
 The seesaw is	class lever, while the whe	energy.	
 The seesaw is	class lever, while the whenter the mercy into mercy into more water from soil to the vacue considered from electric conditions.	ductors.	
 The seesaw is	t answer: considered from electric cond	ductors.	
 The seesaw is	class lever, while the whenter the mercy into mercy into more water from soil to the vacue considered from electric conditions.	ductors.	
 The seesaw is	t answer: considered from electric cond	ductors.	
 The seesaw is	class lever, while the whenter theenergy into of water from soil to the vacue t answer: considered from electric cond b. Iron light bulb is made of	ductors. c. Plastic c. copper	curs by
 The seesaw is	class lever, while the whenter theenergy into of water from soil to the vacue t answer: considered from electric cond b. Iron light bulb is made of b. tungsten	ductors. c. Plastic c. copper	curs by
 The seesaw is	class lever, while the whenter theenergy into of water from soil to the vacue t answer: considered from electric cond b. Iron light bulb is made of b. tungsten oon tends to be	ductors. c. Plastic c. copper during the start of	of the total lun

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هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة



Put (√) or (X):		
 The crowbar is a third class lever. 	(
The effort force is measured by centimeter or meter.	(
The light bulbs are connected in parallel in the house.	(
4. The electric lamps contain the atmospheric air.	(
5. The lunar eclipse lasts for four minutes.	(
6. Solar eclipse occurs when the Moon is between the Sun and the Earth in		
one straight line.	(
Give a reason for:		
1. Second class levers save effort force.		
2. You shouldn't place a metallic object in the socket.		•
2 4The call assembly as a second seco		•••
3. *The cell membrane of root hairs has a selective permeability property.		
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm.	5 cm and	
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm.	5 cm and	
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm.	5 cm and	
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm.	5 cm and	
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm. The opposite figure represents	5 cm and	
In a lever, the effort force is 100 Newton, the length of the force arm = 2 the resistance = 500 Newton. Calculate the resistance arm. The opposite figure represents	5 cm and	



هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلولة





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Complete the following:			
1. Levers help us to perform tasks more easily byandand			
2. The force and the resistance in levers are equal, if			
3. The filament of the light bulb is made of because it has high	········•		
4. There are two ways to connect electric lamps:andand			
5. The eclipse occurs when the hides the sunlight from part	of the	Eart	h.
6. The lunar eclipse occurs in the of the lunar month.			
2 Put (√) or (X):			
Wheelbarrow is an example of the first class lever.		()
2. The lever conserves effort if the effort force arm is shorter than the resistance ar	m.	()
3. The fluorescent lamp contains neon gas.		()
4. In series connection, if one lamp burns the other, lamps keep light.		()
5. The duration of the solar eclipse may last for more than two hours.		()
6. We use special glasses during observing the lunar eclipse.		()
3 A) Write the scientific term:			
1. The fixed point of a rigid bar.	()
2. The type of levers that always conserve effort.	()
Tool that converts the electric energy to light energy.	()
 The dangers of electricity that cause damage of the tissues of the body. 	(•••••)
The losing of water in the shape of water vapor from the plant leaves.	()
			_

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مذا العمل خاص بموقع ذاكرولى التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





B) Compare between:

Comparison	Electric conductors	Electric insulators
Definition		

Examples		

•••••			
3) What ha	ppens when?		
	air inside the light b	ulb.	
	tric fire is put out by	y water.	

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ذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





A) Complete the following:	
The distance between the force and fulcrum is known as	nereas the distan
between the fulcrum and the resistance is called	
The harms resulting from an electric shock depend on and	
3. The fluorescent lamp consists of a glass tube that contains a little of	and mi
tube surface is covered with amaterial.	
 ★Theis widely spread on the lower surface of the leaves. 	
B) Give a reason for:	
 The wheelbarrow is a lever that always conserves effort. 	
······································	
2. In houses, electric lamps are connected in parallel.	
A) Write the scientific term:	
 A rigid bar that rotates around the fulcrum and is affected by the force. 	
and the resistance.	(
Materials that allow the flow of electric current through them.	(
One of the dangers of electricity causing damage to the tissues of the	body.(
 A tool used to convert the electric energy to light energy. 	(
5. A type of levers that always does not save effort.	(
B)The affecting force on a second class lever equals 200 Newton and th	ne length of its o
is 50 cm. If the value of the resistance is 100 Newton, calculate th	
of resistance.	

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة

Write the labels:	(1) (3)
1.	
2	
3.	
B) Put (√) or (X):	
 Rubber is from insulators of electricity. 	(
The fluorescent lamp contains one filament of tungsten.	(
 If the arm of force is longer than the arm of resistance then the level the effort. 	ver conserves
4. Water is not used to put out electric fires.	. (
A) What happen when?	
1. The filament of the light bulb is made of iron.	
2. * There is no osmosis feature in the plant.	
B) Correct the underlined words:	•
1. The lunar eclipse extends for more than two days.	(
2. Looking at the lunar eclipse causes several harms to eye.	(

3. Electric fire occurs as a result of passing an electric current through

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the human body.



24	Luxor - Luxor Educationa	Zone	
A)	Choose the correct answer	r:	
1.	The duration of the solar eclips	e is	
	a. two hours	b. 7 minutes and 40 seconds	c. more that two hours
2.	The lunar eclipse occurs in the	of the lunar month.	
	a. beginning	b. middle	c. end
3.	The filament of the light bulb is	made of	
	a. copper	b. iron	c. tungsten
4.	is the lever that incre	ases speed.	
	a. Hockey bat	b. Nutcracker	c. Manual broom
5.	*absorb water and	mineral salts from the soil.	
	a. Leaves	b. Root hairs	c. Stems
	2. Looking directly at the solar	eclipse.	
C	mplete the following:		
	1. The electric lamp is a device t	that converts theene	rgy into energy.
	2 and are v	ways that connect electricity.	
	3. The crowbar is considered a .	class lever, but the	is a third class levers.
	4. In the solar eclipse	is found between the Sun and	
	5 and are	good conductors of electricity.	
	6. The fluorescent lamps contain	ngas and little amou	nt of
A	Write the scientific term:		
	1. The distance between the re	sistance force and the fulcrum	ı. ()
	2. A fixed point that a rigid bar	rotates on.	()
6			GEM / Science / Primary 6

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلقة





They are burns that result from electricity and cause damage of	of
the body tissues.	(
4. A type of eclipse that occurs when the Moon lies in a higher orbit	t from the Earth.
	(
B) Give a reason for:	
1. Wheelbarrow always conserves effort.	
2. In total lunar eclipse the Moon tends to be red.	
) Correct the underlined words:	
1. In parallel connection of electricity, the light intensity decrease	es by increasing
the number of light bulbs.	(
2. When you place the electric heater close to a curtain, it causes	electric shock.
	(
3. When a part of the Moon enters the cone shadow partial solar	eclipse occurs.
	(
4. Base of light bulb glows and emits light when the electric curre	ent passes
through it.	
5. ★ Stomata are found in large numbers on the plant's stem.	(
In a second class lever, the effort force is 50 N and force arm =	= 20 cm.
If the value of the resistance arm $= 5$ cm, calculate the value	of the resistance







A) Complete the following:		
1. The crowbar is considered a	class lever, but the manu	al broom is a
lever.		
2. The fluorescent lamp contains	s gas.	
You cannot put out the electric	ic fires with water because water	is
4. There is a conservation of effo	rt for the first class lever if	is larger than
5. 🛨 The in plant is su	irrounded by two guard cells.	
B) Compare between:		
1. Electric conductors and electr	ric insulators.	
P.O.C	Electric conductors	Electric insulator
Definition		
Examples		
2. Second class lever and third o	lass lever.	
P.O.C	Second class lever	Third class lever
Conservation of effort		
A) Correct the underlined we	ords:	
 The electric lamp converts t 	he electric energy to kinetic ene	ergy. (
	in <u>parallel</u> , the lamps are conne	ected one
after another.		(
3. ** Transpiration is losing of v	water in the shape of water dro	olets (
B) Give a reason for:		
1. We shouldn't look directly of	t the Sun with the naked eye.	

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بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى والمعلوم

کتاب Gem



	3. Coal holder	c. lever that increases the distance.		
	MANAGED TO MANAGE AND			
	2. Hockey bat	b. lever that avoids danger.		
	1. Tweezers	a. lever that increases the speed.		
	A	В		
	Match from (A) to (B):			
		rease in the temperature of the electric wires. (
3	3. The fixed point of a rigid bar o	on which the bar rotates.		
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
2	2. One of the dangers of the electricity is causing the damage of the tissues of the body			
	(
	It occurs to the Moon when it completely enters the shadow area of the Earth.			
A) !	Write the scientific terms:			
-	2. The light bulbs in the house ar	re connected in series.		
•	The light hulle in the beauty			
	. You make the filament of the light bulb from iron.			
B)	What happens when?			
12.	 Electric shock occurs due to the passage of the electric current through the human body. 			
	COVES.	n the filament and the base of the light bulb. (
	부 - 전	oints at each of the fluorescent lamp ends. (
	 The two phenomena of solar and 	lunar eclipses are repeated regularly and can be predicted.		
A)	Put (✓) or (X):			
	resistance.	value of 1000 Newton, calculate the value of the arr		
	PRINCIPLE AND ADDRESS OF THE PRINCIPLE AND AD	value of 1000 Newton, calculate the value of the arr		





P. 55

- A) 1. photosynthesis
- transpiration
- pith
- 4. stomata
- process.
- B) 1. Because the plant carries out transpiration
 - 2. To control opening and closing the stoma.
- A) 1. oxygen
- 2. shoot
- 3. sunlight CO₂ water mineral salts

- B) Answer by yourself.
- B A) 1. d
- 2. c
- 3. b
- B) Pith → xylem → endodermis → cortex ---- epidermis.
- 43 A) 1. leaf
- 2. photosynthesis
- 3. quard
- 4. transpiration
- B) 1. Process by which the plant allows some salts to pass through according to the plant's need.
 - 2. Transmission of water from high concentration of water to low concentration of water through a semi-permeable membrane.

- 1 A) 1. b
- 2. c
- 3. a
- 4. b
- B) Answer by yourself.
- 2 A) 1. guard cell
 - water, water vapor
 - 3. photosynthesis process
 - nitrogen calcium magnesium.
 - B) 1. To make photosynthesis process.
 - 2. To allow the permeability of some salts and not allow the passing of others according to the needs of the plant.
- 3 A) 1. cortex
- 2. root hairs
- two guard cells
- B) Fig. (a) open stoma.
 - Fig. (b) closed stoma.
- 4 A) 1. (X)
- 3. (🗸)
- 4. (X)
- B) Answer by yourself.

School Exams

on the Second Term

2018-2019 -

Cairo - Shoubra Educational Directorate

- A)1. mercury vapor
 - 2. plastic
- pliers
- 7 minutes and few seconds
- B) 1. water
- 2. first
- annular
- 4. Archimedes
- guard
- 2 A) 1. (X) 2. (X) 3. (\(\sigma\) 4. (\(\sigma\) 5. (\(\sigma\)) B)

P.O.C.	Solar eclipse	Lunar eclipse
Reason	Moon comes between the Earth and the Sun on one straight line	Earth comes between the moon and the sun on one straight line
Time of occurrence	at daytime	at night

C) 1. effort force x its arm = resistance x its arm

effort force $x 2 = 20 \times 6$

- : effort force = = = 60 N
- The lever doesn't conserve effort, because the effort force is larger than the resistance force.
- 3 A) 1. tungsten melting point
 - coal holder ice holder
 - 3. solar moon
 - B) 1. pick up very small objects.
 - connect the fluorescent lamp to the electricity.
 - Help the plant to lose most of the excess water that reaches leaves.
 - C) a. closed
- b. series connection
- 4 A) 1. second class lever
- 2. electric burn
 - effort force
- total solar eclipse
- B) 1. Because, the sun emits harmful rays (UV - IR) that may cause blindness.
 - 2. Because, it causes electric overload that heats up wires leading to electric fires.
 - To allow the water to transmit from the soil (high concentration of water) to root hairs (less concentration of water) by the osmosis feature.
- C) 1. This causes electric shock.
 - Annular solar eclipse occurs.







Cairo - Educational Zone - Official Language Schools

- 1 A) 1. third first
 - 2. third class lever second class lever
 - tungsten melting point
 - 4. electricity human body
 - partial solar eclipse moon
 - B) 1. To connect the lamp to the electric circuit.
 - 2. Because, it causes electric overload that heats up wires leading to fires.
 - 3. To get rid of excess water of the plant through transpiration process.
- 2 A)1. lever
- first class lever
- 3. electric burn 4. total lunar eclipse
- parallel
- Second class lever
- B) effort force \times its arm = resistance \times its arm $100 \times 25 = 500 \times its arm$

$$\therefore \text{ resistance arm} = \frac{100 \times 25}{500} = 5 \text{ cm}$$

- 3 A)1. Fulcrum
- 2. argon
- 3. Increasing force
- 4. Iron
- 5. guard
- B) 1. It protects the filament from burning and increases its lifetime.
 - It prevents air from reaching the filament to protect it from burning.
 - It fixes the plant in the soil.
- 4 A) 1. (X) 2. (X) 3. (V) 4. (X)

- 5. (**1**) 6. (**1**)
- B) 1. The light intensity of the lamps will not be affected by increasing the number of the connected lamps.
 - The filament will burn.
 - 3. The moon light turns to be faint without being eclipsed.

Cairo - El Sherouq Zone - Mena Language School

- A)1. third class lever
 - 2. electric lamp
- electric burn
- solar eclipse
- 5. photosynthesis
- B) effort force × its arm = resistance × its arm

$$200 \times 50 = 1000 \times its arm$$

- : resistance arm =
- 2 A)1. Seasaw pliers
 - 2. effort force x its arm = resistance x its arm
- 4. copper iron
- B) Answer by yourself.

- 3 A)1. To connect the lamp to the electric circuit.
 - 2. To avoid occurrence of electric fires.
 - B)1. light
- 2. two
- 3. argon
- parallel
- root hair
- 4 A) 1. (X) 2. (V) 3. (V) 4. (X)

- B) 1. The filament will melt at high temperatures.
 - The filament will burn.

Giza - Dokki Educational Directorate

- A)1. Nutcracker
- 2. plastic
- middle
- 4. electric fire
- B) a. effort force \times its arm = resistance \times its arm $10 \times 10 = 20 \times its arm$

$$\therefore \text{ resistance arm} = \frac{10 \times 10}{20} = 5 \text{ cm}$$

- b. The lever saves effort, because the force arm is longer than resistance arm.
- C)1. The moon light turns to be faint without being eclipsed.
 - The filament will melt.
 - 3. The root hairs can't control passing of some types of salts according to the plant's need.
- 2 A)1. first second 2. parallel
 - 3. electricity
- 4. moon earth
- B) 1. battery
- 2. lamp
- 3. electric wires
 - 4. switch
- C) Answer by yourself.
- 3 A)1. Because, water is a good conductor of electricity.
 - 2. To control opening and closing the electric circuit.
 - 3. Because, the sun emits harmful rays to the eye that may cause blindness.
 - 4. Because, in the first levers only, the effort arm may be equal to resistance arm.
- B)1. glass bulb
- argon gas
- filament
- base of light bulb
- 4 A)1. fulcrum
- penumbra
- electric insulators
 - series connection
 - B) 1. electric fire
- argon 4. copper
- solar C) Answer by yourself.
- Giza Giza Educational Administration Orman Language School
- A)1. second first
 - mercury vapor
 - electricity
- 4. moon
- stomata



- B)1. The effort force is more than the resistance force and this lever doesn't conserve effort.
- 2. The light intensity of lamps will not be affected.
- 2 1. mercury vapor
- 2. sweet holder tungsten
- 3. third
- 5. shoot system
- 3 A)1. electric lamp
 - 2. electric fires
- 3. total lunar eclipse
- 4. fulcrum
- 5. epidermis
- B) Answer by yourself.
- 4 A)1. third
- total
- 3. first
- B)1. (A) series
 - (B) parallel
 - 2. Answer by yourself.
- Giza Abo El-Nomrous Educational Zone Ahmos Language School
- A)1. glass bulb the base of light bulb
 - 2. don't play with electric connection don't insert metallic object in socket
 - 3. moon earth
- 4. moon
- photosynthesis
- B) 1. 2nd class lever
 - 2. 3rd class lever
 - 2nd class lever
 - 4. 3rd class lever
 - 2nd class lever
 - 6. 2nd class lever
- 2 A) 1. electric lamp
 - 3. solar eclipse 2. electric fires
 - B) 1. electric conductor
 - 2. series
- 3. second
- 4. dark
- 5. vapor
- 3 A) 1. total lunar eclipse
 - 2. a good conductor of electricity
 - mercury vapor
 - penumbra
 - B)1. Because, the effort arm is always longer than the resistance arm, so the effort force is always smaller than resistance force.
 - 2. Because, the sun emits harmful rays to the eye that may cause blindness.
 - 3. To allow the root hair to control the passing of some types of salts according to the plant's need.
- 4 A) Answer by yourself.
 - B) 1. c
- 2.a
- 3.b

C)

Osmosis feature	Selective permeability
It is the transmission of water molecules through semi-permeable membrane from an area with high concentration of water to area of low concentration.	It is a process by which the cell membrane of root hair allows some types of salts to pass according to the plant's need.

Giza - Boulak El-Dakrour Administration - Dar El-Hanan Language School

- 1 A)1. tungsten melting point
 - 2. electric burn
- partial lunar eclipse
- 4. epidermis cytoplasm
- B)1. Because, the sun emits harmful rays to the eye that may cause blindness.
 - 2. To protect the filament from burning so the lifetime of the filament increases.
- 2 A) 1. lever
- third class lever
- 3. parallel
- 4. total solar eclipse
- B)1. Some of them conserve effort
 - 2. Allow the plant to get rid of excess water through transpiration process.
- 3 A) Answer by yourself

 - B) 1. light 2. copper

 - 3. umbra 4. carbon dioxide

4

A)

P.O.C.	2 nd class levers	3rd class levers
efinition	They are levers that have the resistance force between effort force and fulcrum.	They are levers that have the effort force between the resistance force and fulcrum.
xample	Nutcracker	Hockey bat
	efinition	They are levers that have the resistance force between effort force and fulcrum.

- B) 1. The filament will burn.
 - 2. This causes electric shock.
- Alexandria Al-Montazah Directorate El-Rahman Language School
- A)1. electric current
 - 2. third class lever
- penumbra
- 4. series connection
- 5. force arm
- electric circuit
- B)1. To prevent turning off all the lamps of the house when one lamp is damaged.
 - 2. Because, the Earth has a great size relative to the moon.
 - 3. Because, it has fulcrum between the effort force and resistance.



هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخ



- 2 A)1. The effort force will equal the resistance force and the lever doesn't conserve effort.
 - Partial lunar eclipse occurs.
 - Filament will melt.
 - B) Answer by yourself.
- 3 1. argon gas mercury vapor
 - 7 min and fourty seconds 2 hours
 - electric shock electric fires
 - 4. rigid fulcrum
- Second first
- spiral two side nails
- 4 A) 1. water red
- electric fire
- 4. Second class
- 5. Switch
- 6. transpiration
- B) It is astronomical phenomenon which occurs when the Earth, the moon and the sun are nearly on one straight line with moon in the middle.
- C) 1. filament
- 2. glass bulb
- base
- 4. piece of lead
- copper wires 6. argon gas

Alexandria - Al-Montazah Directorate

- 1 A) 1. Third Second
- 2. Series parallel
- 3. glass bulb base of light bulb
- 5. Osmosis feature 4. moon - Earth
- B) Answer by yourself.
- 2 A) 1. increase 2. middle

 - Archimedes 4. fulcrum
- - B)1. Because, it has high melting point.
 - 2. Because, sometimes in the first class levers, the effort arm is longer than the resistance arm.
 - To control opening and closing the stoma.
- 3 A) 1. electric lamp
 - 2. manual broom
 - total lunar eclipse 4. electric fire

 - B)1. Third
- Because, the effort arm is always shorter than the resistance arm, so the effort force is always larger than resistance.
- A) 1. mercury vapor 2. seven minutes
 - 3. second
- 4. decreases
- selective permeability B) Answer by yourself.
- Dakahlia Dakahlia Educational Directorate
- A) 1. electric burn
- 2. solar eclipse
- newton
- good conductors
- parallel
- first class lever
- transpiration

- B) Answer by yourself.
- C)1. increasing force
 - 2. avoiding dangers
- 2 A)1. middle
- 2. argon
- manual broom
- 4. shock
- 5. (a),(b),(c)
- rubber
- 7. endodermis
- B) Answer by yourself.
- 3 A)1. Earth moon sun
 - tungsten high melting
 - series 4. umbra
 - good conductor
 - B)1. The moon tends to be faint without being eclipsed.
 - 2. The other lamps in the circuit will not be affected.
 - Answer by yourself.
- 4 A) 1. (X) 2. (X)
- 3. (X) 4. (V)
- 5. (1) 6. (X) B)1. base of the bulb
 - copper wires 3. glass bulb
- 4. argon gas
- C)1. battery 3. switch
- 2. lamp 4. electric wires

Kafr El-Sheikh - Directorate of Education

- A)1.2
- 2. tungsten
- 3. first
- 4. during day
- transpiration
- B)1. (a) open electric circuit
 - (B) closed electric circuit
 - 2. The electric current will not flow through wires.
- 2 A)1. b
- 2. c
- 3. d
- 4. a
- B)1. electric conductors 2. indirect injuries
 - stomata
- 3 A)1. To protect the filament from burning and increases its lifetime.
 - Because, in second class lever the force arm is always longer than the resistance arm so the force is always less than the resistance.
 - B) 1. parallel becomes faint

4 A) 1. (X)

- lunar
- argon

B) 1. earth - red

- 5. carboon dioxide
- 2. (1) 3. (X)
- selective permeability





12 Beheira - Science Supervision

- A) 1. second class
 - 2. fulcrum
- 3. series
- 4. partial lunar
- B) 1. Because the sun emits harmful rays as (UV - IR) that cause blindness.
 - 2. Because they are used in:
 - · Increasing the speed.
 - Increasing the distance.
 - Avoiding dangers.
 - Preserving accuracy in performance.
- 2 A) 1. Resistance arm.
 - First class levers.
 - Electric burns.
 - Solar eclipse.
 - B) 1. The lever does not save effort.

.....**.**

- Electric shock will occur.
- 3 A) 1. argon
- 2. middle
- tungsten
- 4. first
- selective permeability
- B) 1. It prevents air from reaching the filament to protect it from burning.
 - 2. It always saves effort.
- 4 A) 1. year
- 2. light
- 3. copper
- 4. 7 minutes
- 5. transpiration
- B) Answer by yourself.

13 Beheira - Kafr El-Dawar Educational Zone - El-Safwa Private School

- 1 A) 1. less
- 2. electric shock
- 3. total lunar eclipse
- 4. epidermis layer
- B) force x its arm = resistance x its arm

$$200 \times 2 = R \times 4$$

$$R = \frac{200 \times 2}{4} = 100 \text{ N}$$

F > R .: It doesn't conserve effort.

- 2 A) 1. solar eclipse
- 2. resistance arm
- electric burns
- 4. partial lunar eclipse
- 5. transpiration process
- B) 1. You will get an electric shock.
 - The lever becomes unbalanced.
- 3 A) 1 c) full moon
 - 2 c) wheel barrow
 - 3 a) twice per year
 - 4 c) Archimedes
 - B) Answer by yourself.

4 A) 1. Glass bulb.

- Function: It prevents air from reaching the filament to protect it from burning.
- 2. Tungsten filament.
 - Function: It is heated till it glows and emits light when electric current passes through the filament.
- 3. The base of lamp.
 - Function: It carries the light bulb in an upright position.
 - It connects the light bulb to the electric circuit.
- B) 1. Answer by yourself.
 - 2. To avoid electric fires.
 - Because the sun emits harmful rays as (UV - IR) that cause blindness.

14 Damietta - Directorate of Education - Official Language Schools

- A) 1. Argon mercury vapor.
 - effort force resistance force.
 - partial lunar eclipse, annular solar eclipse.
 - 4. tungsten, melting point
 - B) 1. The fire won't be put out and it might increase.
 - Light intensity will decrease by increasing the number of lamps and all the lamps will be turned off if one lamp is burned.

2 A) 1. electric burns

- 2. electric conductors
- 3. total solar eclipse
- 4. series connection
- B) 1. simple electric circuit
 - 2. 1. electric wire
 - 2. switch (key
 - 3. battery
- 4. electric lamp
- 3. closed.
- 3 A) 1 b) the wheel barrow
 - 2 a) longer than
 - 3 a) first.
 - 4 c) annular
 - B) 1. To connect the lamp with electric circuit.
 - Because the effort force is always greater than resistance force.
 - To allow water to transmit from the soil (high concentration of water) to root hairs (less concentration of water) by the osmosis feature.

4 A) Answer by yourself.

- B) 1. per year
- 2. partial
- sand
- 4. second
- semi permeable
- C) Answer by yourself.

28

15 Sharkia - Sharkia Educational Directorate

- 1 1. fulcrum
- 2. third class levers
- second class levers.
- 4. electric lamp
- electric conductors
- lunar eclipse
- 7. stomata
- 2 A) 1. first
- 2. middle
- decreases
- B) 1. Because it has a high melting point that prevents the filament from melting at high temperature.
 - 2. Because water is a good conductor of electricity, so it will increase the fire.
 - Because the sun emits harmful rays as (UV - IR) that cause blindness.
- 3 A) 1. force, distance
- 2. battery, wire
- wood, plastic
- total lunar eclipse, partial lunar eclipse
- B) 1. Effort force x its arm =

the resistance force x its arm

2. 200 1000 x R arm

- R arm =
- 1. first class levers
 - third class levers
 - argon gas
- 4. parallel
- 5. electric shock
- 6. red
- carbon dioxide

16 Port Said - Directorate of Education - Inspectorate of Science

- second
- 2. argon
- moon, earth
- parallel
- third
- two guard cells
- 2 A) 1. (c) tungsten 3. (c) copper
- 2. (c) scissors
- B) 1. c
- 2. a
- 3. b 4.d

4. (a) first

- 3 A) 1. partial lunar eclipse
 - electric fires
- lever
- B) 1. solar
- series
- longer
- 4 A) 1. Because water is a good conductor of electricity, so it will increase the fire.

- Due to the osmosis feature which allows the transmission of water through a semi-permeable membrane from an area of high concentration of water to a lower one.
- B) Total lunar eclipse will occur.
- C) Effort force × its arm =

the resistance force x its arm

200 50 = 1000 x R arm

R arm = $\frac{200 \times 50}{1000}$ = 10 cm

D) 1. lamp

electric wire

switch (key) 4. battery

17 South Sinai - Science Supervision

- A) 1. effort force, resistance force
 - wood, plastic
 - battery
 - moon, earth
 - electric burns
 - third class
 - B) 1. Because water is a good conductor of electricity, so it will increase the fire.
 - 2. Because they are used in:
 - Increasing the speed.
 - Increasing the distance.
 - Avoiding dangers.
 - Preserving accuracy in performance.
 - Because it helps the plant to get rid of excess water by transpiration process
- A) 1. wheelbarrow.
 - 2. remains as it is
 - 3. iron
 - crow bar
 - light
 - less than
 - B) 1. Don't use one socket for many devices at the same time.
 - 2. Don't insert metal objects in electric sockets.
 - 3. Don't play with electric connections
 - C) 1. sun
- moon
- 3. umbra (full shadow)
- penumbra (partial shadow)
- 3 A) 1. (X)
- 2. (X)
- 3. (1)

- 4. (1)
- 5. (X)
- 6. (X)

B)

Total lunar eclipse	Partial lunar eclipse
It is the lunar eclipse which happens when the whole moon falls in the shadow area (umbra) of the earth	It is the lunar eclipse which happens when a part of the moon lies in the shadow (umbra) area of earth and the other part lies in the semi- shadow (penumbra) area of the earth
We can't see the moon completely.	We can't see a part of the moon.
C) 1. e 2. c	3. d 4.a

- 4 A) 1. second class levers
 - 2. the tungsten filament
 - series connection
 - 4. fulcrum
 - 5. electric shock
 - first class levers
 - B) F x F arm = R x R arm

$$48 \times 4 = R \times 6$$

Resistance =
$$\frac{48 \times 4}{6}$$
 = 32 N

- C) 1. The light intensity will decrease by increasing the number of lamps and if one lamp is burned all the lamps will be turned off
 - 2. The moon will be faint without being eclipsed.
 - This will lead to burning of the filament.
 - 4. This will lead to electric fires.

18 Fayoum - Science Supervision

- A) 1. (a) first.
- (b) argon.
- 3. (b) moon, the earth, the sun.
- 4. (b) second.
- (c) semipermeable.
- B) Effort force x its arm = Resistance force

x its arm

100 x 200 Resistance arm = -

- 2 A) 1. series connection
 - Total lunar eclipse
 - Electric burns
- Fulcrum
- B) 1. Because it has a high melting point that prevents the filament from melting at high temperature.
 - Because the sun emits harmful rays as (UV - IR).

- 3. Due to the osmosis feature which allows the transmission of water from an area of high concentration of water to an area of low concentration of water.
- 3 A) 1. (✓)

- 2. (X) 3. (V) 4. (X)
- B) 1. Second class lever
 - 2. First class lever 3. Third class lever
- 4 A) 1. Iron copper
 - 2. Earth partial
 - phosphoric mercury
 - epidermis
 - B) 1. This is a third class lever that doesn't save effort.
 - 2. This might lead to electric fires.
 - 3. The tungsten filament will burn.

19 Assuit - Directorate of Education

- A) 1. First class lever
 - 2. Moon, earth
 - Conductors, insulators
 - 4. Third
 - B) Pith Xylem Endodermis Cortex -**Epidermis**
- 2 A) 1. (V)
- 2. (X) 3. (X) 4. (X)
- 5. (1)
 - B) 1. The fire won't be put out and it might increase.
 - 2. Light intensity decreases as the number of lamps increase and all the lamps will turned off if one lamp is burned
- A)1. parallel connection
 - 2. partial lunar eclipse
 - Electric burns
- Third class levers
- B) 1. Because the sun emits harmful rays as (UV - IR).
 - Because sometimes the arm of force is longer than the arm of the resistance.
- 4. A) 1. light bulb
 - 2. (1) Tungsten filament
 - (2) Thin glass bulb
 - (3) The base of lamp
 - B) FxFarm = R x Rarm

 $50 \times 20 = R \times 5$

Resistance = $\frac{50 \times 20}{5}$ = 200 N



20 Qena - Qena Educational Administration

- 1 A) 1. Flow
- 2. Second
- decreases
- 4. third
- 5. Stomata
- B) 1. It is a rigid bar that rotates around a fixed point called fulcrum and is affected by effort force and resistance force.
 - It is the astronomical phenomenon which occurs when Earth, Moon and Sun are nearly on one straight line with moon in the middle.
- 2 A) 1. two hours
- 2. argon
- total and partialtungsten
- Xylem vessels
- B) 1. To avoid occurrence of electric fires.
 - Because sometimes in the 1st class levers the effort arm is longer than resistance arm.
- 3 1. (X)
- 2. (**v**) 3. (**v**) 5. (**v**) 6. (**x**)

- 4. (X)
- 5. (1)
- 6. (X)
- 7. (1)
- 4 A) 1. electric shock 2. Fluorescent lamp
 - B) effort force x its arm = resistance x its arm

 $30 \times 20 = 20 \times its arm$

:. Resistance arm = ____

C) Answer by yourself.

Qena - Qena Directorate of Education

- A) 1. fulcrum
 - series connection
 - electric burn
- 4. total lunar eclipse
- B) 1. The fire will increase and could harm the rescuers as water is good conductor of electricity.
 - Answer by yourself.
- 2 A) 1. first Second
- 2. electric light
- Osmosis
- B) 1. iron
- 2. tungsten
- red
- 4. first
- 3 A) 1. (X) 4. (X)
- 2. (X) 5. (X)
- 3. (1) 6. (1)
- B) 1. Because, the effort arm is always longer than the resistance arm.
 - To avoid occurrence of electric shock.
 - Answer by yourself.

- A) effort force x its arm = resistance x its arm $100 \times 25 = 500 \times its arm$
 - ∴ Resistance arm = 100 x 25 = 5 cm
 - B) 1. battery
- 2. switch
- electric wire

22 Sohag - Akhmeem Educational Management

- 1. increasing force increasing speed
 - force arm = resistance arm
 - tungsten melting point
 - 4. series parallel
- 5. partial solar moon
- middle
- 2 1. (X)
- 3. (X) 6. (X)

- 4. (X)
- 2. (X) 5. (X)
- 3 A) 1. Fulcrum electric lamp
- 2. Second class 4. electric burn
- transpiration
- B) Answer by yourself.
- A) Answer by yourself.
 - B) 1. The filament will burn.
 - The fire will increase and could harm the rescuers.
 - 3. The lunar eclipse occurs.
 - 4. Water can't be transported from soil to the root hair.

Sohag - Sohag Educational Zone

- A) 1. effort arm resistance arm
 - strength of electricity time taken by electricity through human body.
 - 3. mercury vapor phosphoric
 - 4. stomata
 - B) 1. Because, the force arm is always longer than the resistance arm.
 - 2. To prevent turning off all the lamps of the house when one lamp is damaged.
- 2 A) 1. Lever
- electric conductors electric lamp
- 3. electric burn
- 3rd class lever
- B) Answer by yourself
- 3 A) 1. moon
- Sun 3. Earth
- B) 1. (🗸)
- 2. (X)
- 3. (🗸)

Solar

- 4. (1)
- 4 A) Answer by yourself.
 - B) 1. two hours

electric shock

24 Luxor - Luxor Educational Zone

- A) 1. 7 minutes and 40 seconds
 - middle
- tungsten
- hockey bat
- 5. root hairs
- B) 1. This causes electric shock.
 - 2. Harm the retina of the eye that may cause blindness
- 2 1. electric light
- Series parallel
- first hockey bat
- 4. moon earth
- copper iron
- argon mercury vapor
- 3 A) 1. resistance arm
 - 2. Fulcrum
 - electric burn
 - Annular solar eclipse
 - B) 1. Because it always has effort arm longer than resistance force.
 - Due to the refraction of some infrared rays that are not absorbed by earth's atmosphere.
- A) 1. series
- 2. electric fire
- 3. lunar
- 4. filament
- 5. leave
- B) effort force x its arm = resistance x its arm

$$50 \times 20 = resistance \times 5$$

$$\therefore \text{ Resistance force} = \frac{50 \times 20}{5} = 200 \text{ N}$$

25 Aswan - Aswan Educational Directorate

- A) 1. first third
- argon
- 3. good conductor of electricity
- force arm resistance arm
- 5. stomata
- B) Answer by yourself.
- A) 1. light
- 2. series
- vapor
- B) 1. Because the sun emits harmful radiations as (UV - IR) that cause blindness.

......

- To avoid electric shock.
- C) Answer by yourself.
- 3 A) 1. () 2. (X) 3. ()
- 4. (1)
- B) 1. It will melt.
 - 2. The light intensity will decrease by increasing the number of lamps and if one lamp is burned all the lamps will be turned off.
- 4 A) 1. total lunar ellipse
 - electric burns
- 3. fulcrum
- 4. electric fires
- B) 1. d
- 2. a
- 3. b
- 4. C



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ترخيص وزارة التربية والتعليم رقم 330/2/1/102

ڪتياپ Gem

هذا العمل خاص بموقع ذاكرولي التعليمي ولا يسمح بتداوله على مواقع أخرى

